

**Patent Assignee: (NAGA-) NAGAI DENSHI KOGYO**

**Abstract (Basic): JP 62094913**

Mfr. comprises (a) forming a valve-functioning metal film on one or both sides of an insulating material by vacuum evaporation plating, (b) forming an anodic oxide film on the metal film, (c) coating a TCNQ complex on the anodic oxide film by vacuum evaporation plating to form an organic semiconductor film, (d) coating a metal on the organic semiconductor film by vacuum evaporation plating to form a cathode film to obtain a base element and (e) coiling the base element and providing electrode lead parts on both ends of the coiled element.

Pref. the insulating material is made of a plastic film or plastic sheet. The TCNQ complex includes 2,2'-bipyridinium (TCNQ)<sub>2</sub>, 4-hydroxy-N-benzylanilinium (TCNQ)<sub>2</sub>, 4-amino-2,3,5,6-tetramethylanilinium (TCNQ)<sub>2</sub>, pyridinium (TCNQ)<sub>2</sub>, 4-cyano-N-methylpyridinium (TCNQ)<sub>2</sub>, N-ethylquinolinium (TCNQ)<sub>2</sub>, N-(2-phenethyl)quinolinium (TCNQ)<sub>2</sub>.

USE/ADVANTAGE - The capacitor does not have any spacer but has the TCNQ complex-contg. organic semiconductor film, and the temp. stability is improved.

**MANUFACTURE OF TOROIDAL ELECTROLYTIC CAPACITOR**

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